

Write the ⁽²¹⁾
Standard Form
Equation of Each
Ellipse.

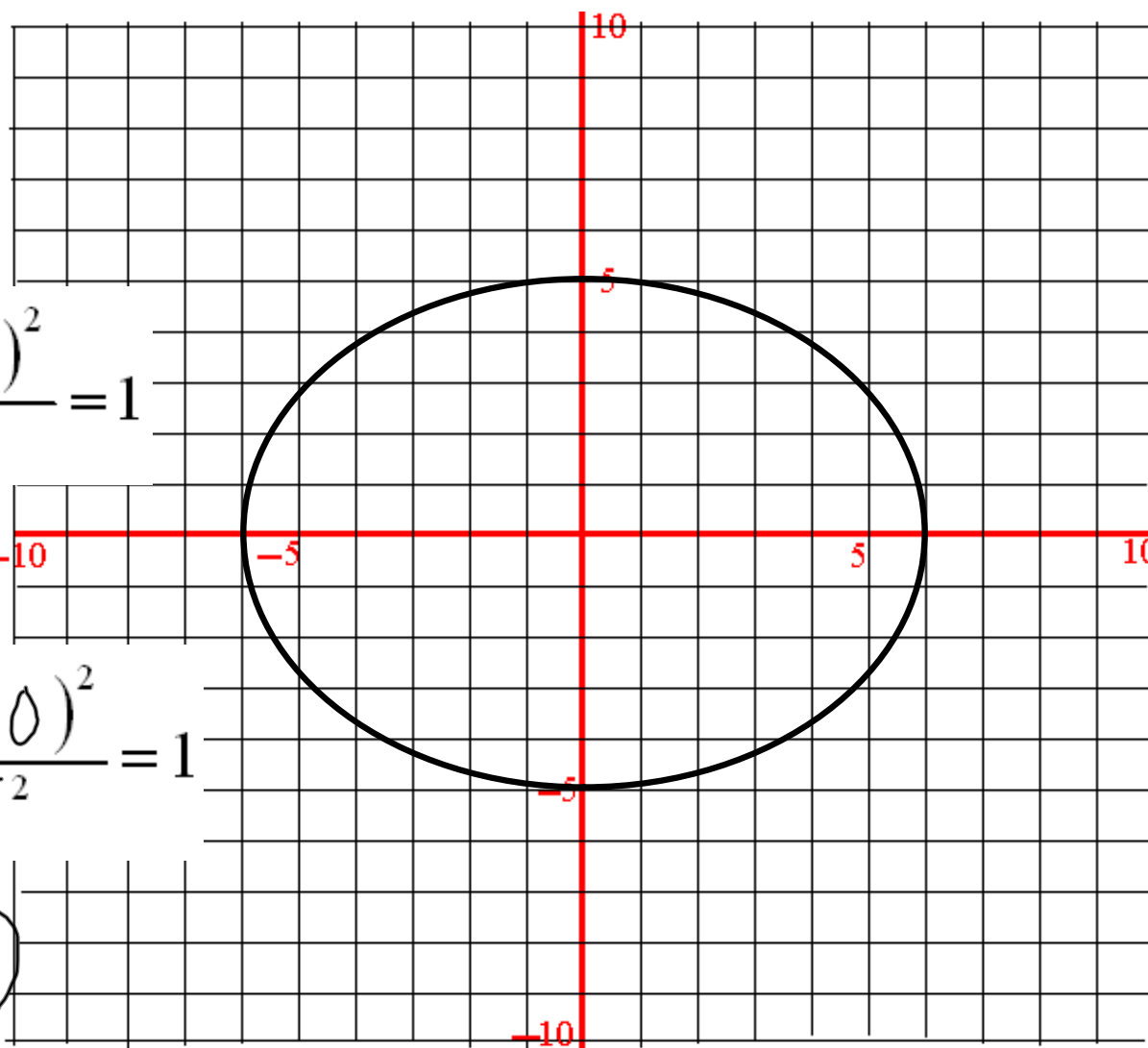
$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$h, k = 0, 0$$

$$a = 6 \quad b = 5$$

$$\frac{(x-0)^2}{6^2} + \frac{(y-0)^2}{5^2} = 1$$

$$\frac{x^2}{36} + \frac{y^2}{25} = 1$$



Write the 22
Standard Form
Equation of Each
Ellipse.

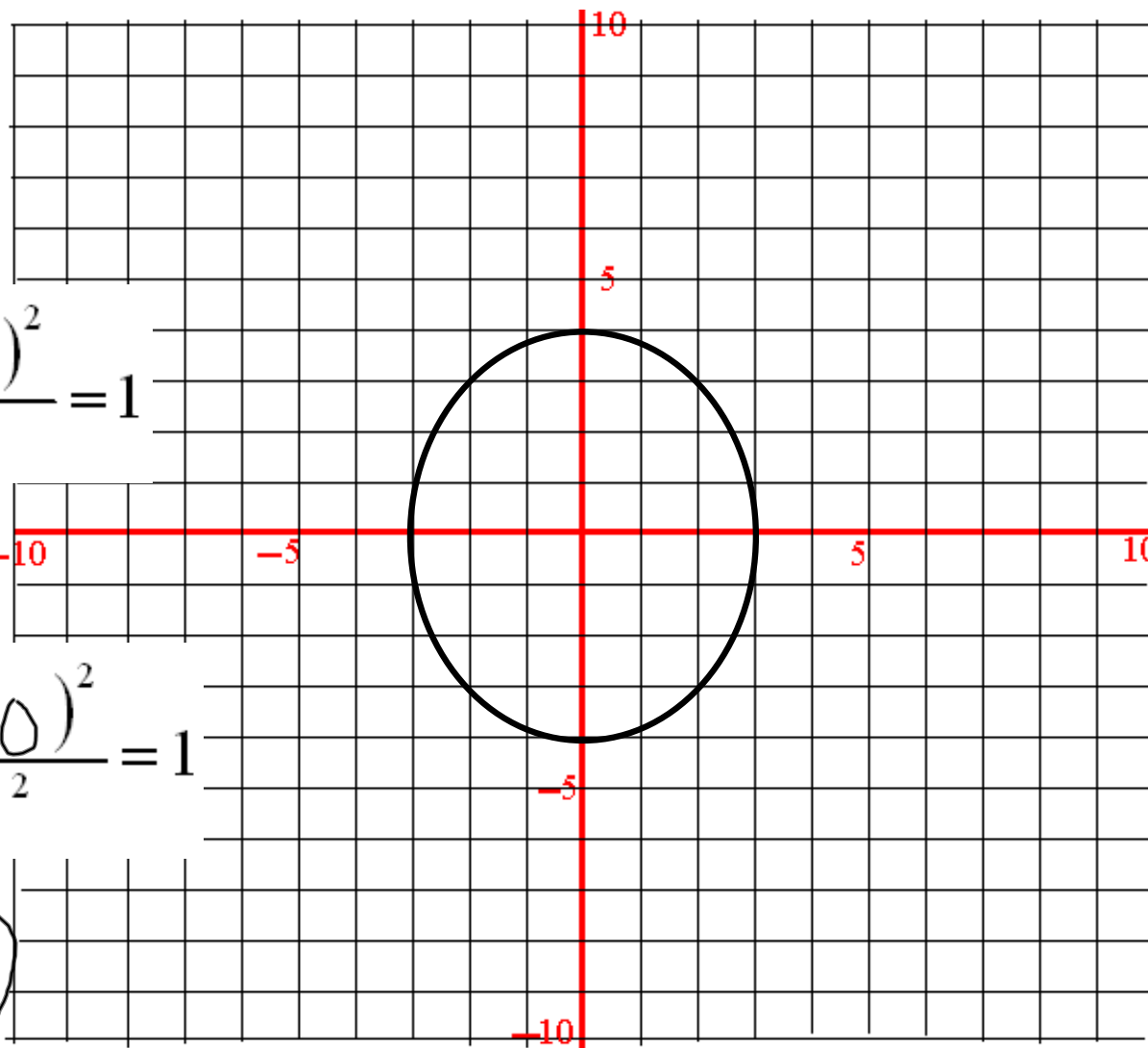
$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$h, k = 0, 0$$

$$a=3 \quad b=4$$

$$\frac{(x-0)^2}{3^2} + \frac{(y-0)^2}{4^2} = 1$$

$$\frac{x^2}{9} + \frac{y^2}{16} = 1$$



Write the ²³
Standard Form
Equation of Each
Ellipse.

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

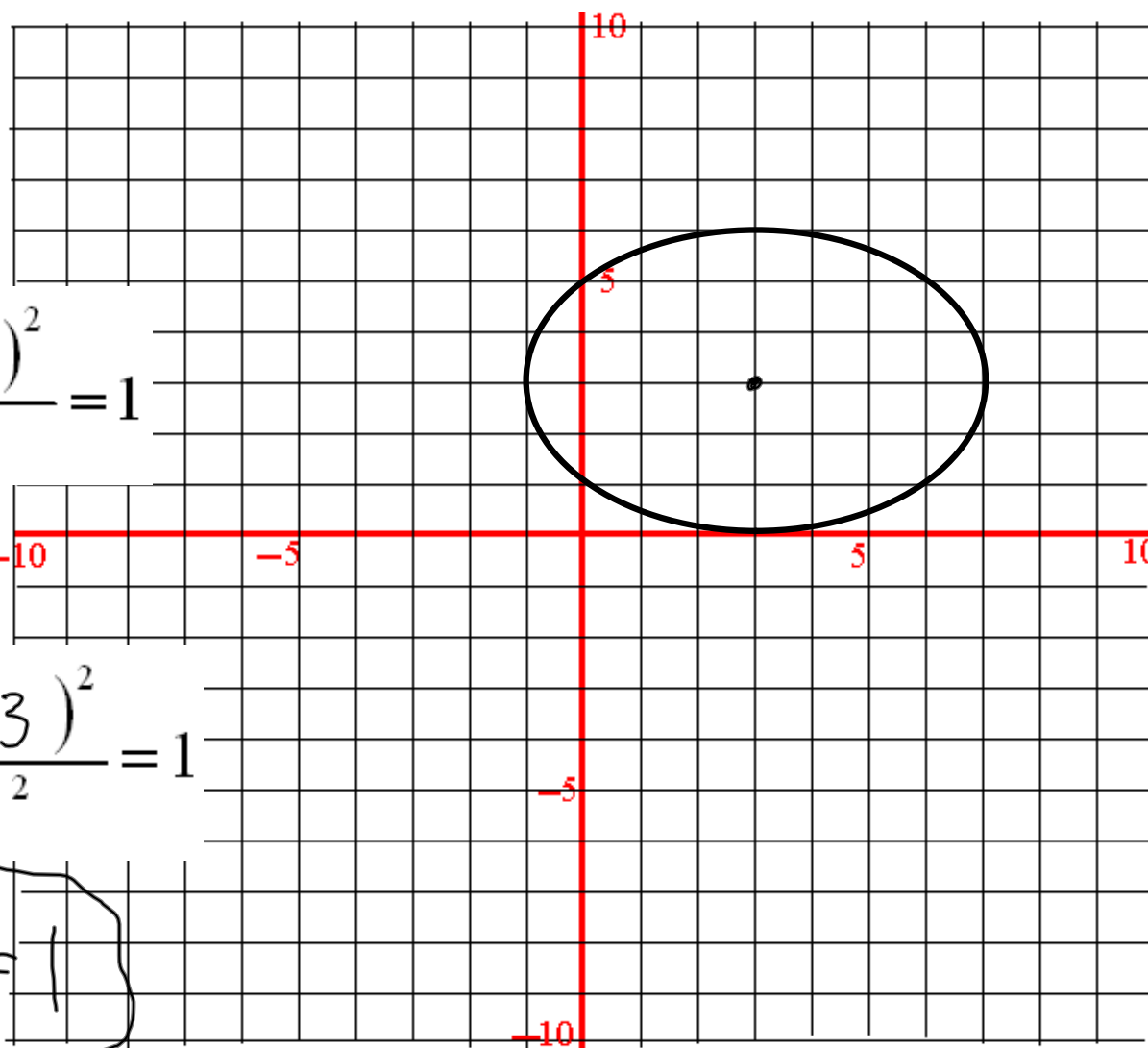
$$h, k = 3, 3$$

$$a = 4$$

$$b = 3$$

$$\frac{(x-3)^2}{4^2} + \frac{(y-3)^2}{3^2} = 1$$

$$\frac{(x-3)^2}{16} + \frac{(y-3)^2}{9} = 1$$



Write the 24
Standard Form
Equation of Each
Ellipse.

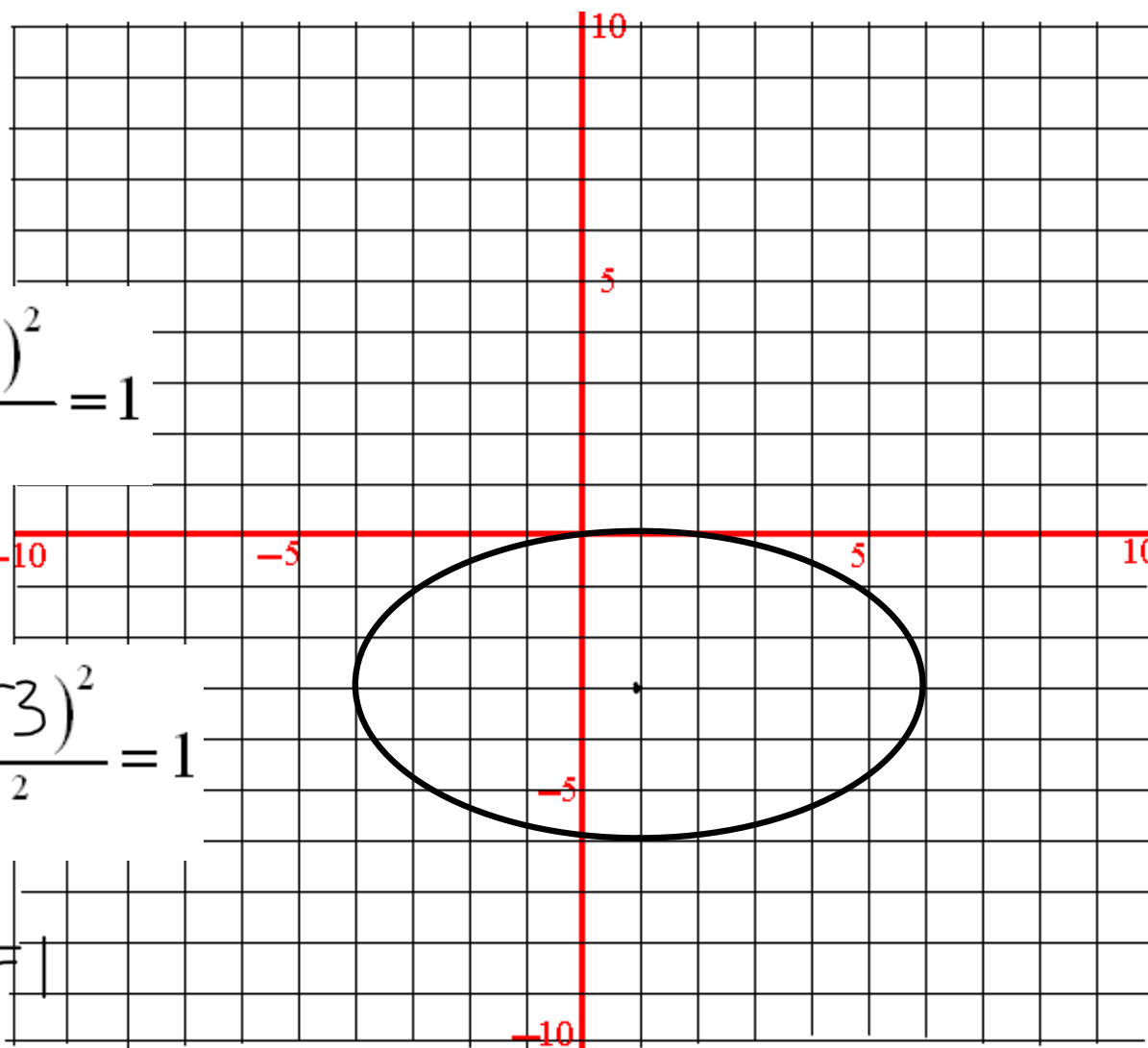
$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$h, k = 1, -3$$

$$a = 5 \quad b = 3$$

$$\frac{(x-1)^2}{5^2} + \frac{(y+3)^2}{3^2} = 1$$

$$\frac{(x-1)^2}{25} + \frac{(y+3)^2}{9} = 1$$



Write the 25
Standard Form
Equation of Each
Ellipse.

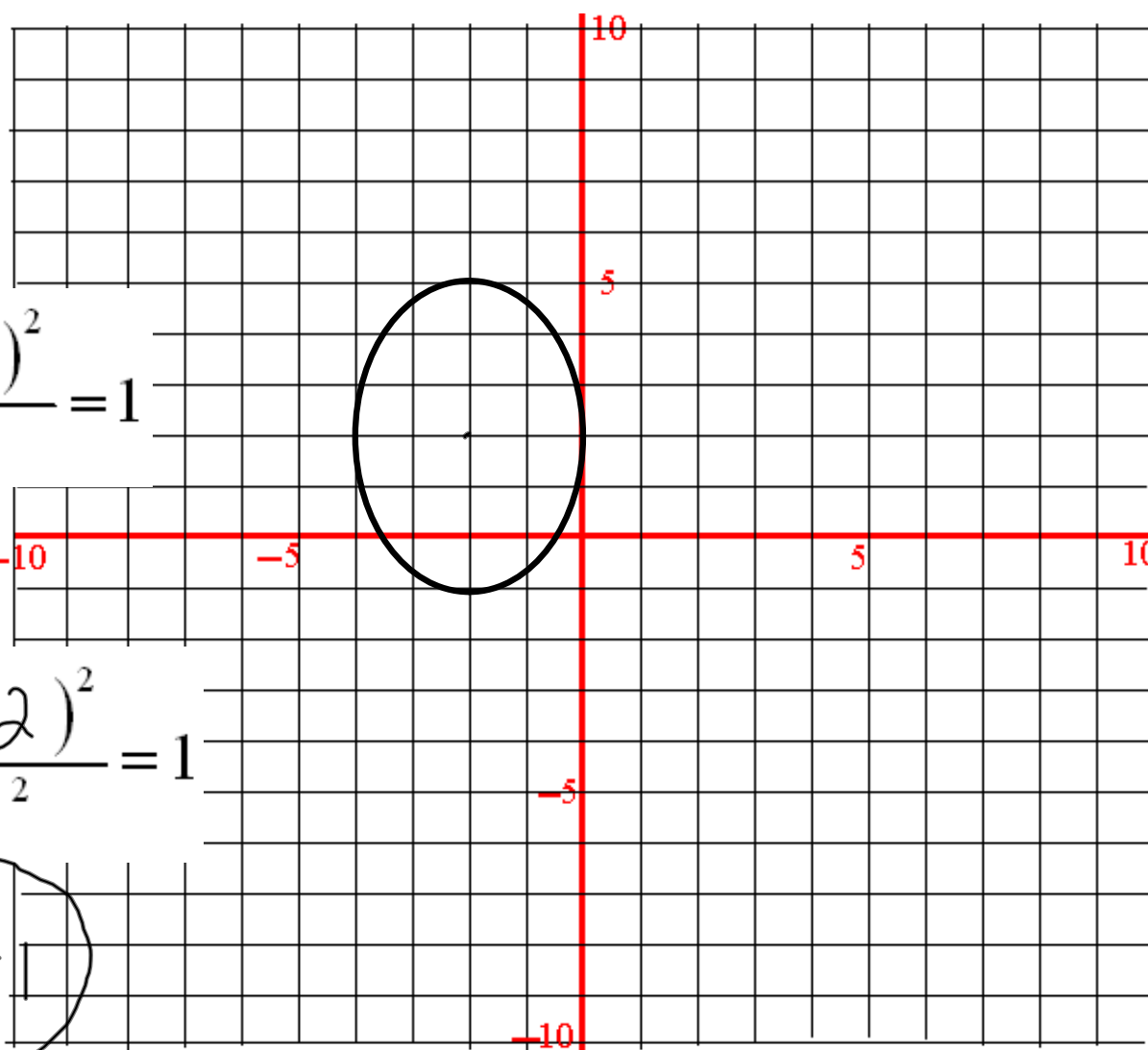
$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$h, k = -2, 2$$

$$a = 2 \quad b = 3$$

$$\frac{(x-2)^2}{2^2} + \frac{(y-2)^2}{3^2} = 1$$

$$\frac{(x+2)^2}{4} + \frac{(y-2)^2}{9} = 1$$



Write the ⁽²⁶⁾
Standard Form
Equation of Each
Ellipse.

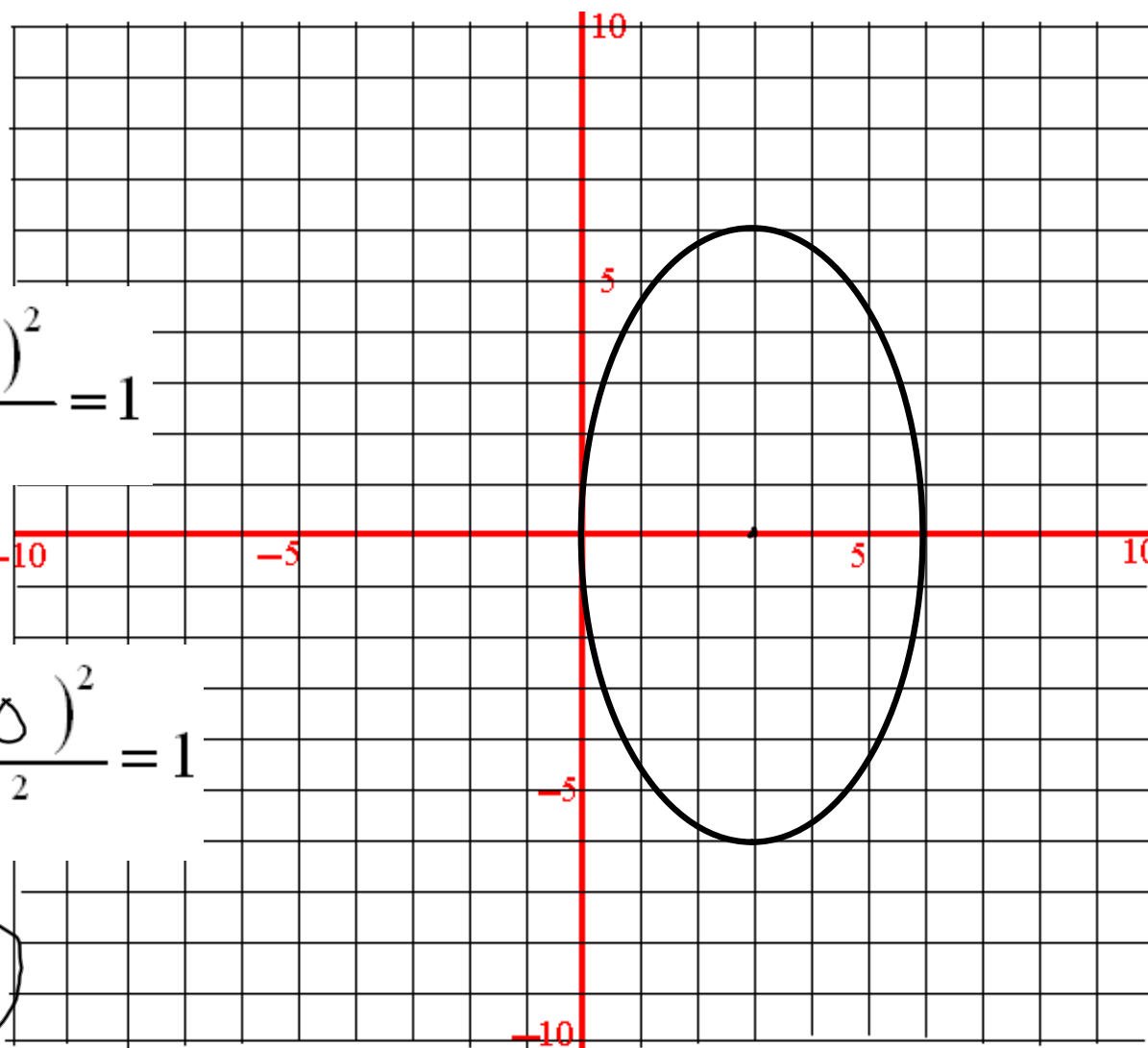
$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$h, k = 3, 0$$

$$a = 3 \quad b = 6$$

$$\frac{(x-3)^2}{3^2} + \frac{(y-0)^2}{6^2} = 1$$

$$\frac{(x-3)^2}{9} + \frac{y^2}{36} = 1$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

(27)

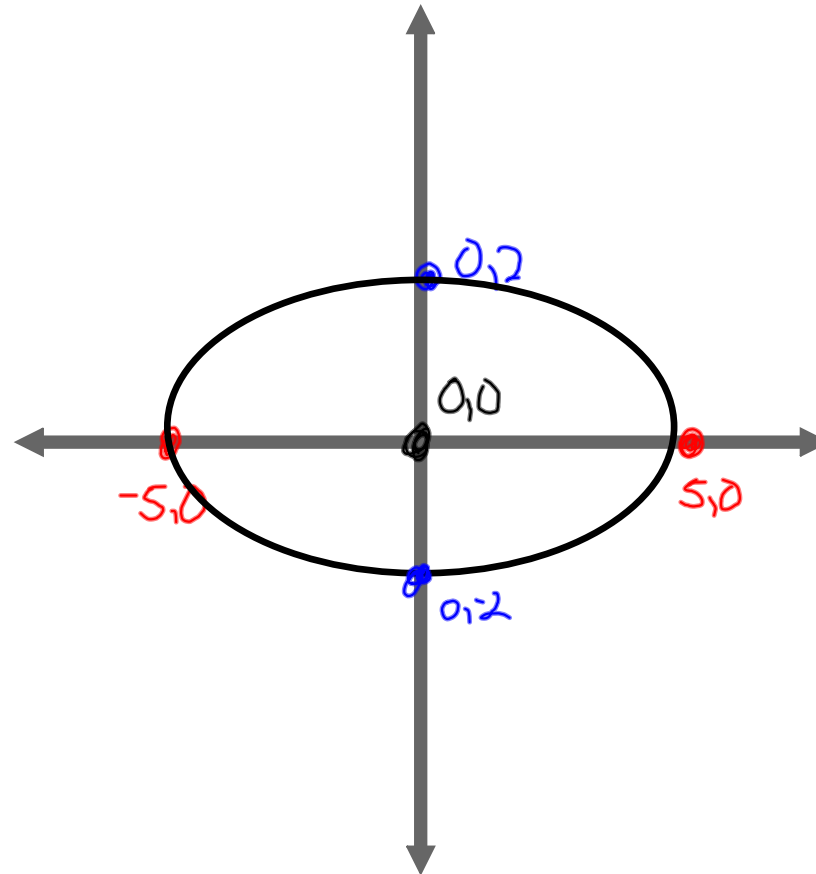
$$\frac{x^2}{25} + \frac{y^2}{4} = 1$$

$$\frac{(x-0)^2}{5^2} + \frac{(y-0)^2}{2^2} = 1$$

$$h, k = 0, 0$$

$$a = 5$$

$$b = 2$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

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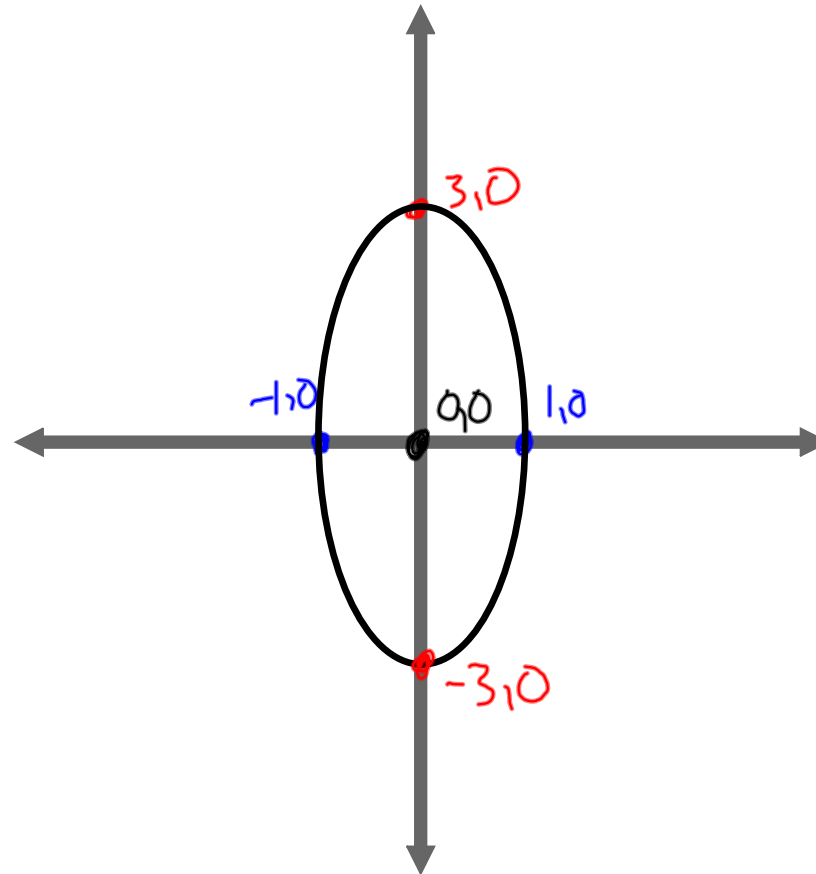
$$\frac{x^2}{1} + \frac{y^2}{9} = 1$$

$$\frac{(x-0)^2}{1^2} + \frac{(y-0)^2}{3^2} = 1$$

$$h, k = 0, 0$$

$$a = 1$$

$$b = 3$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

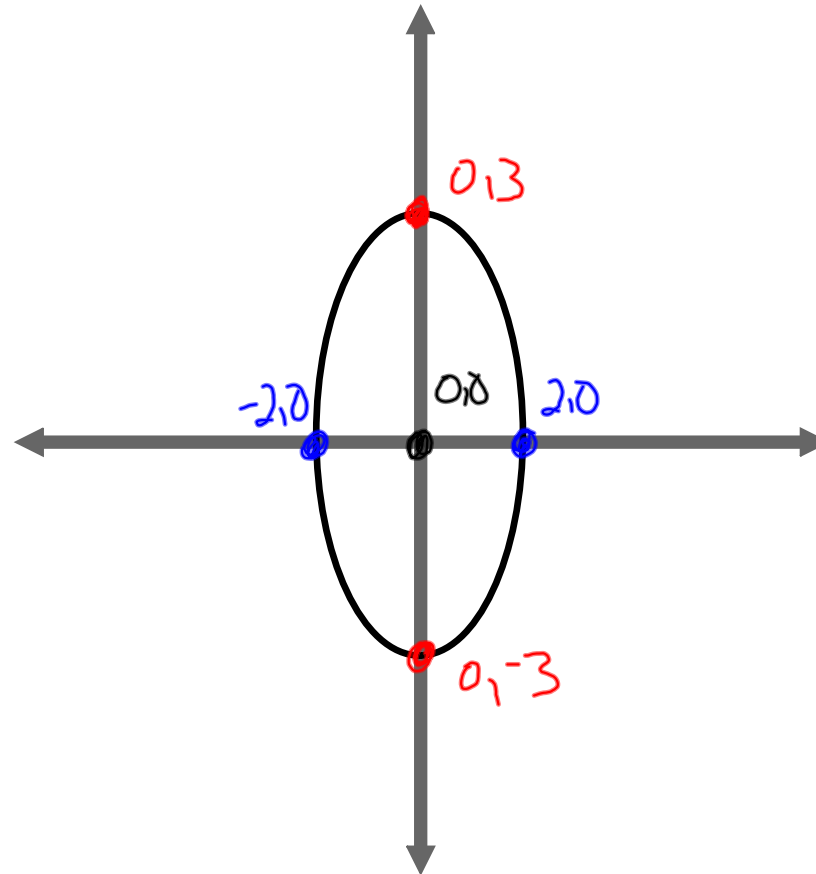
(29) $\frac{x^2}{4} + \frac{y^2}{9} = 1$

$$\frac{(x-0)^2}{2^2} + \frac{(y-0)^2}{3^2} = 1$$

$$h, k = 0, 0$$

$$a = 2$$

$$b = 3$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

30

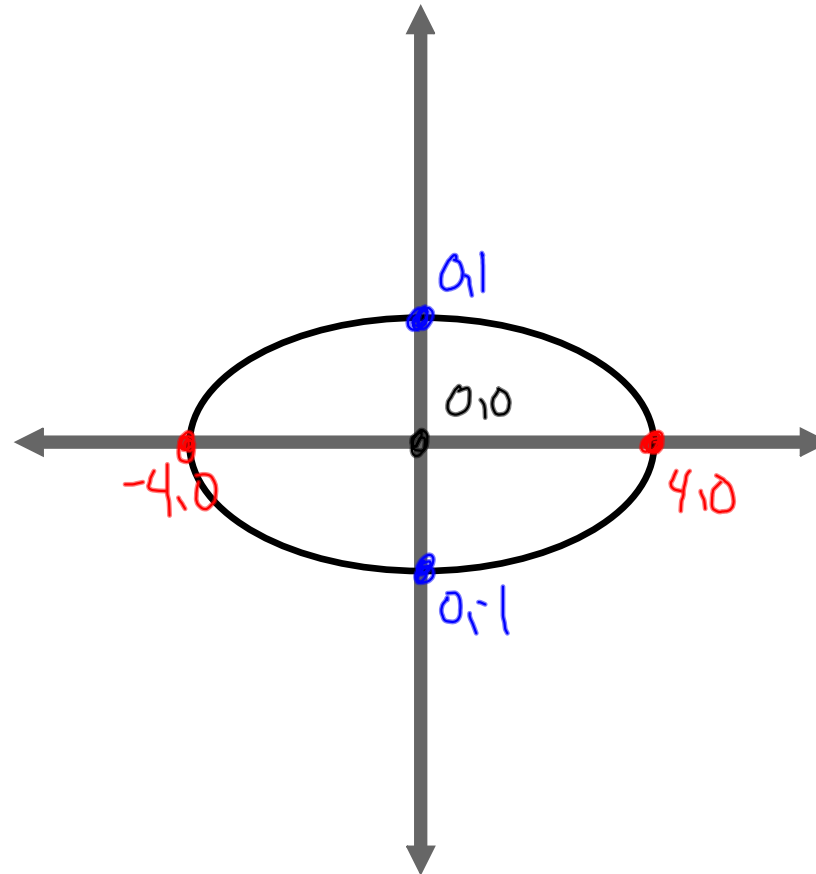
$$\frac{x^2}{16} + \frac{y^2}{1} = 1$$

$$\frac{(x-0)^2}{4^2} + \frac{(y-0)^2}{1^2} = 1$$

$$h, k = 0, 0$$

$$a = 4$$

$$b = 1$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

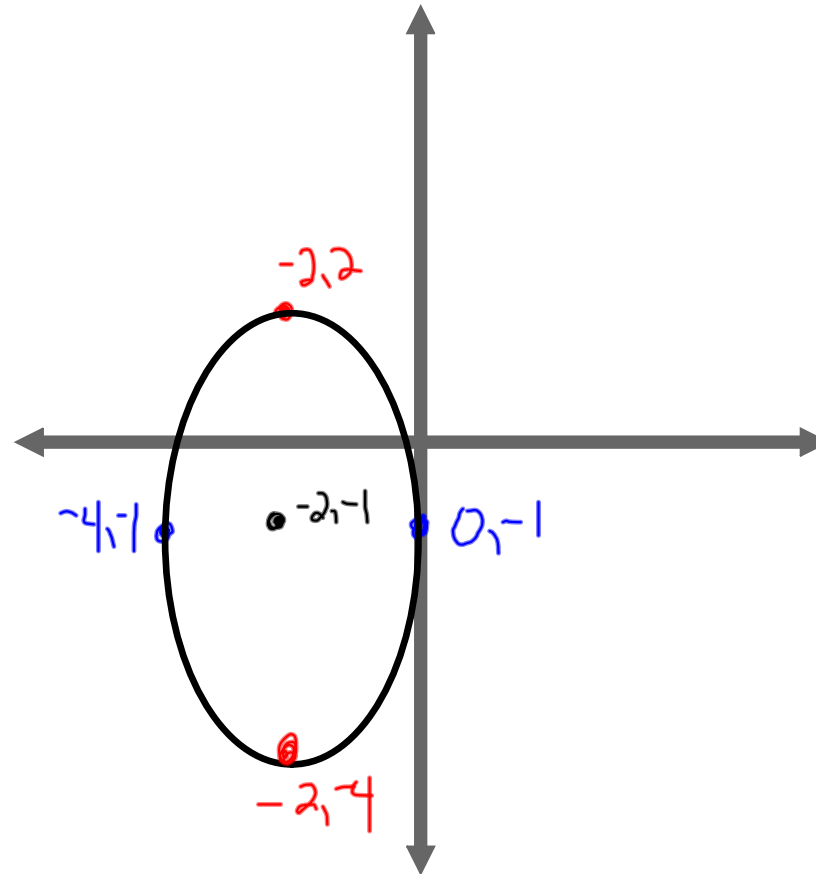
31 $\frac{(x+2)^2}{4} + \frac{(y+1)^2}{9} = 1$

$$\frac{(x-(-2))^2}{2^2} + \frac{(y-(-1))^2}{3^2} = 1$$

$$h, k = -2, -1$$

$$a = 2$$

$$b = 3$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

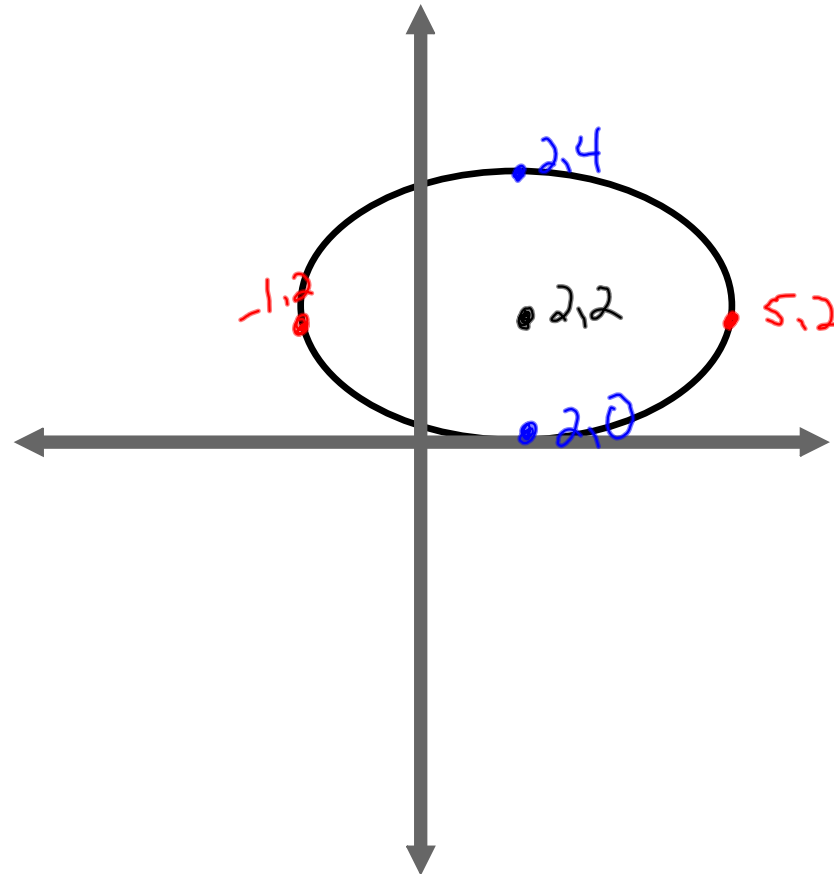
$$(32) \quad \frac{(x-2)^2}{9} + \frac{(y-2)^2}{4} = 1$$

$$\frac{(x-2)^2}{3^2} + \frac{(y-2)^2}{2^2} = 1$$

$$h, k = 2, 2$$

$$a = 3$$

$$b = 2$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

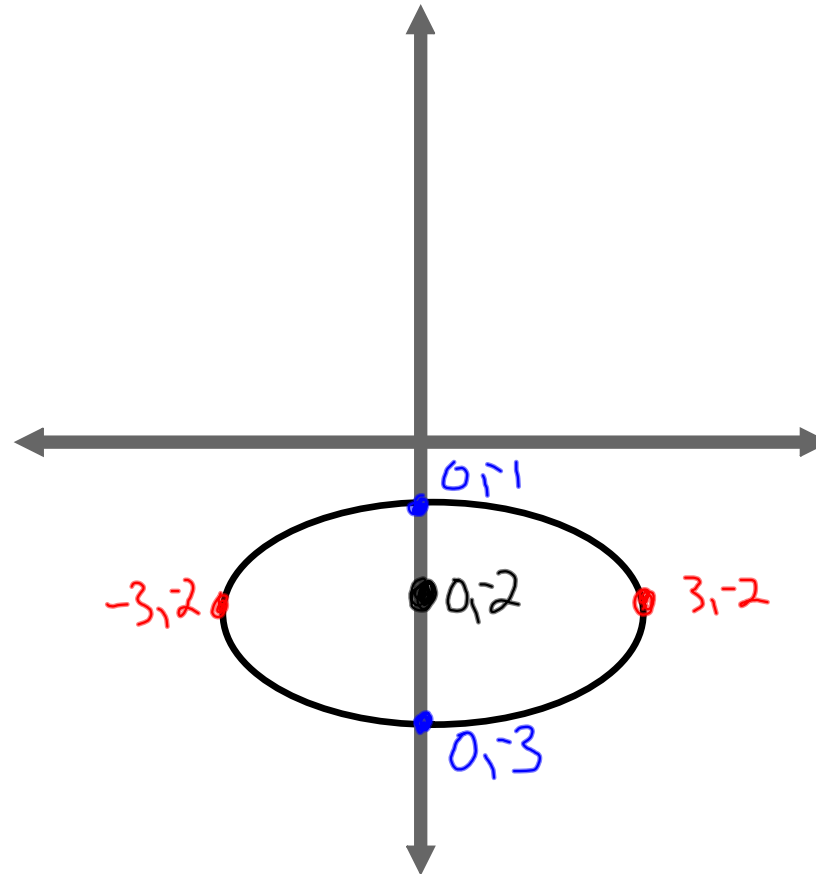
(33) $\frac{x^2}{1} + \frac{(y+2)^2}{9} = 1$

$$\frac{(x-0)^2}{1^2} + \frac{(y-(-2))^2}{3^2} = 1$$

$$h, k = 0, -2$$

$$a = 1$$

$$b = 3$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

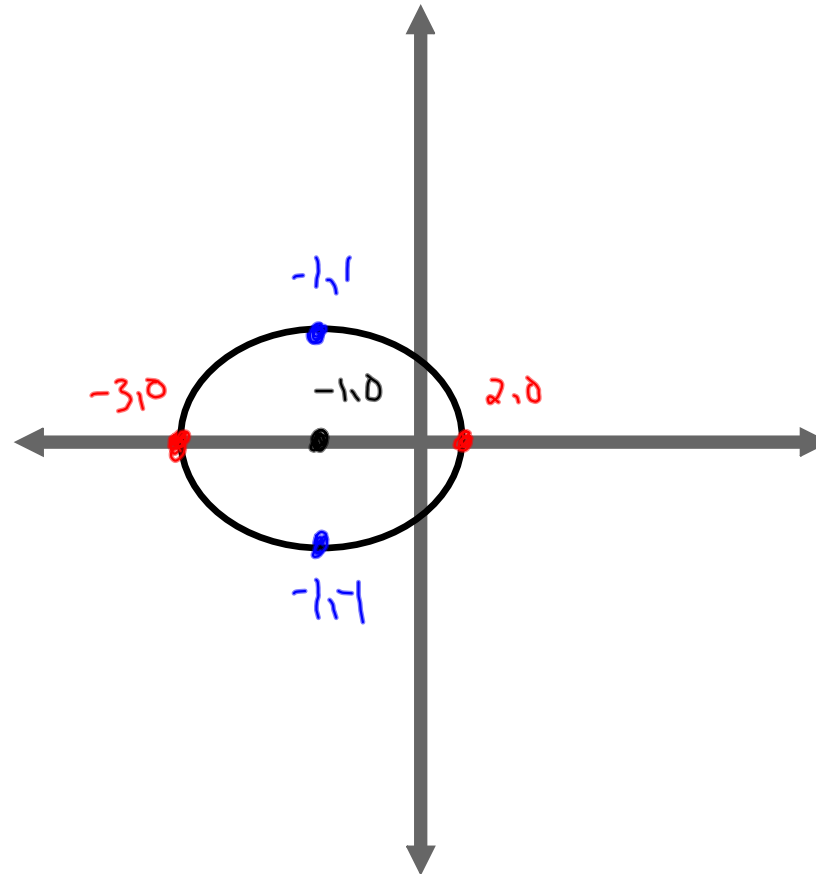
(34) $\frac{(x+1)^2}{4} + \frac{y^2}{1} = 1$

$$\frac{(x - (-1))^2}{2^2} + \frac{(y - 0)^2}{1^2} = 1$$

$$h, k = -1, 0$$

$$a = 2$$

$$b = 1$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

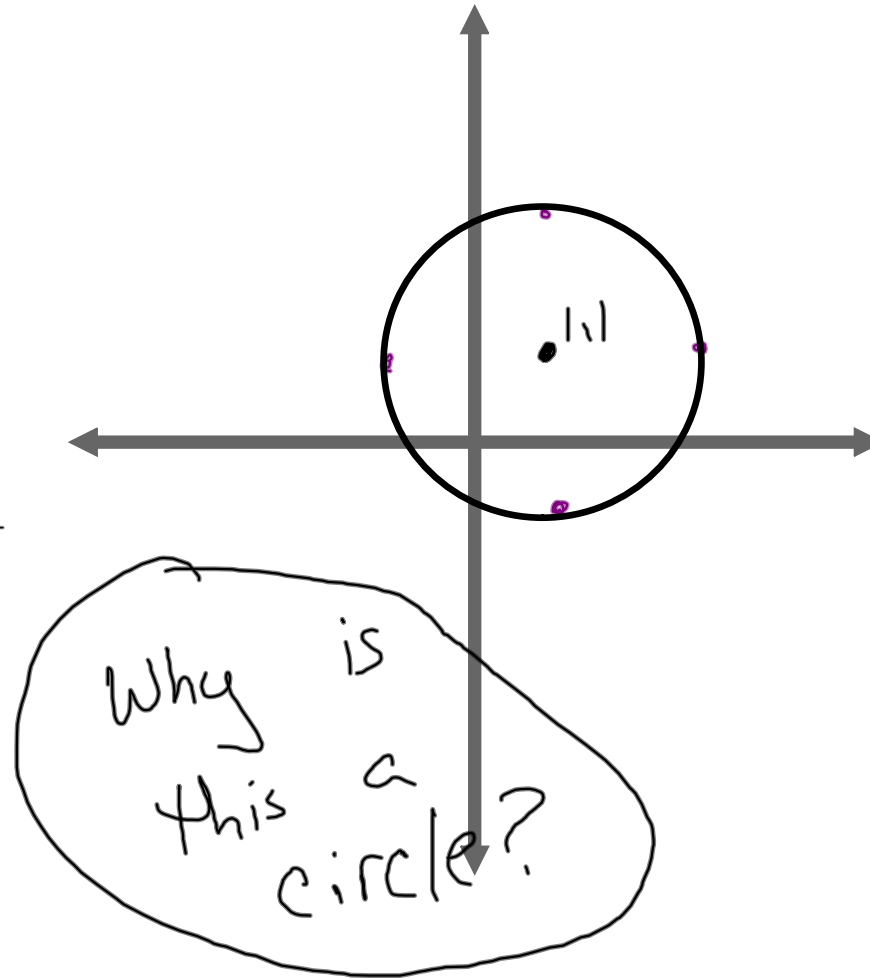
(35) $\frac{(x-1)^2}{4} + \frac{(y-1)^2}{4} = 1$

$$\frac{(x-1)^2}{2^2} + \frac{(y-1)^2}{2^2} = 1$$

$$h, k = 1, 1$$

$$a = 2$$

$$b = 2$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

$$(36) \quad \frac{16(x+1)^2}{144} + \frac{9(y-1)^2}{144} = \frac{144}{144}$$

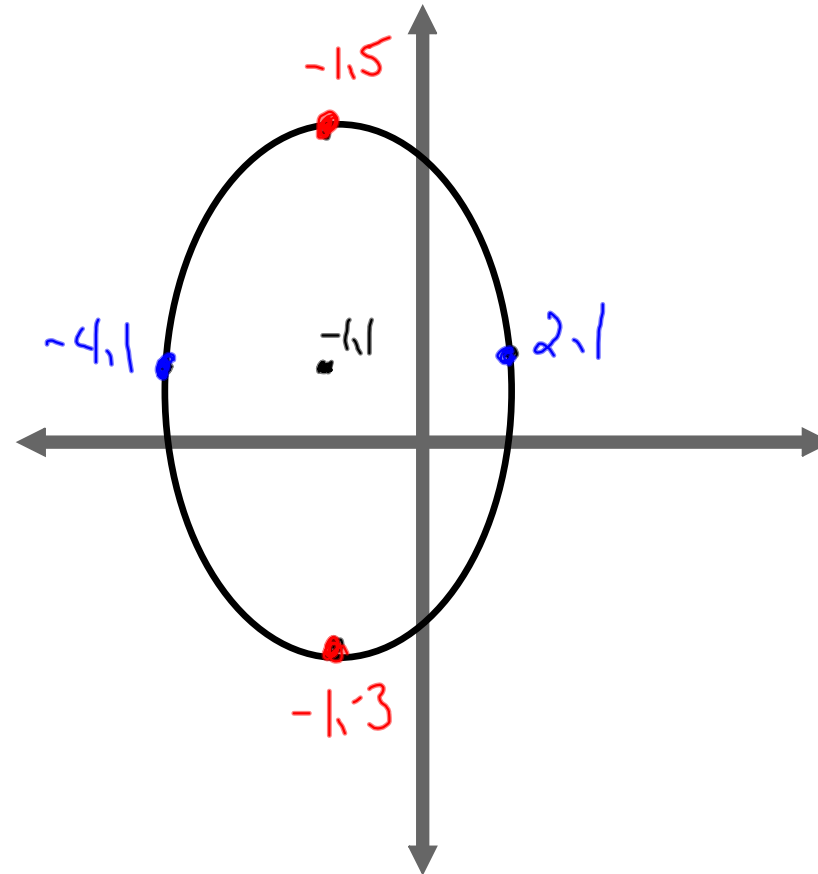
$$\frac{(x+1)^2}{9} + \frac{(y-1)^2}{16} = 1$$

$$\frac{(x-(-1))^2}{3^2} + \frac{(y-1)^2}{4^2} = 1$$

$$h, k = -1, 1$$

$$a = 3$$

$$b = 4$$



Sketch the graph of each ellipse. Label the center, **vertices** and **covertices**.

$$(37) \quad \frac{9(x-1)^2}{225} + \frac{25(y+2)^2}{225} = \frac{225}{225}$$

$$\frac{(x-1)^2}{25} + \frac{(y+2)^2}{9} = 1$$

$$\frac{(x-1)^2}{5^2} + \frac{(y+2)^2}{3^2} = 1$$

$$h, k = 1, -2$$

$$a = 5$$

$$b = 3$$

